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09/840,627

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Pavel A. Krasutsky

Examiner: Deborah D. Carr

Serial No.: 09/840,627

Group Art Unit: 1621

Filed: April 23, 2001

Docket: 600.460US3

Title: METHOD FOR MANUFACTURING BETULINIC ACID

**AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111**

Commissioner for Patents  
Washington, D.C. 20231

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AUG 14 2002  
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Applicant has reviewed the Office Action mailed on June 19, 2002. Please amend the above-identified patent application as follows.

**IN THE ABSTRACT**

Please make the paragraph substitutions indicated in the appendix entitled Clean Version of Amended Abstract. The specific changes incorporated in the substitute Abstract are shown in the following marked-up version of the Abstract:

**ABSTRACT**

The present invention provides a method for preparing an ester of betulin[-] at the 3-  
[acetate]position, e.g., betulin-3-acetate, including [alcoholyzing]the selective alcoholysis of a  
betulin-3,28-[dibenzoate;]diester, e.g., betulin-3,28-diacetate; a [process]method for preparing  
betulin-3-acetate including[:] (1) acetylating betulin to provide betulin-3,28-  
[dibenzoate]diacetate and (2) the alcoholysis of[alcoholyzing] betulin-3,28-[dibenzoate]diacetate  
to provide betulin-3-acetate; and a method [process] for preparing betulinic acid[:] (1) acetylating  
betulin to provide betulin-3,28-[dibenzoate;]diacetate, (2) the alcoholysis of  
[alcoholyzing]betulin-3,28-[dibenzoate]diacetate to provide betulin-3-acetate[:], (3) oxidizing  
betulin-3-acetate to provide betulinic aldehyde-3-acetate[:], (4) oxidizing betulinic aldehyde-3-  
acetate to provide betulinic acid-3-acetate[:], and (5) deprotecting betulinic acid-3-acetate to  
provide betulinic acid.



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We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ An Amendment and Response (12 Pages).
- ☒ Clean Version of the Pending Claims (10 pgs.).
- ☒ Clean Version of Abstract (1 pg.).

Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional required fees or credit overpayment to Deposit Account No. 19-0743.

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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on this 2<sup>nd</sup> day of August, 2002.

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